Waupaca County UW-Extension Courthouse 811 Harding Street Waupaca, WI 54981 Non-Profit Organization U.S. Postal Paid Waupaca, WI 54981 Permit No. 3



Upcoming Events:

Aug 12-14

WI Farm Technology Days 3 Mi South of Fleet in Stevens Point

August 20-24

Waupaca County Fair Fairgrounds, Weyauwega

Sept 3

Dairy Margin Protection Program Crystal Falls, New London

Sept 5

Ag Lender/Farm Managers Conf Liberty Hall Kimberly

Sept 6

Waupaca Co. UW-Extension Master Gardener Plant Sale Fairgrounds, Weyauwega

Sept 10 - Oct 1

Corn Silage Dry Down Days Clintonville Elevator/FVTC, Clint Larsen Coop Feed Mill, Weyauwega

Dairy Margin Protection Program

Wednesday, September 3 Crystal Falls, New London



The new farm bill announced earlier this year offers a "safety-net" for dairy farms called the Dairy Margin Protection Program (DMPP). This voluntary program is designed to pay participating dairy farms when income over feed costs falls below a certain (insured) level. However, you have to sign-up to be covered, and the cost will vary depending on the amount of milk and the margin each farm wants to protect.

To learn more about this new federal dairy program, including the latest on enrollment plans and procedures, plan to attend the local UW-Extension program on Wednesday afternoon, September 3 at Crystal Falls in New London. A free soup & sandwich lunch buffet will be available starting at noon, with the program to follow from 1-3 PM. Dr. Mark Stephenson, Extension Dairy Policy Specialist at UW-Madison will be the guest speaker.

Although there is no cost to attend, advance registration is encouraged to ensure adequate food and materials are available. Register by calling the Waupaca County UW-Extension office (715-258-6231) or by sending an email to dana.nelson@ces.uwex.edu

Waupaca County



Summer, 2014

AGRICULTURE RESOURCE NEWSLETTER

Greg Blonde, UW-Extension Agriculture Agent...715-258-6230 (ext 2) or greg.blonde@ces.uwex.edu

INSIDE THIS ISSUE:

New FSA Dairy Program UW Agronomy/Soils Field Day Will Late Planted 4 - 5 Corn Make It? WFTD 2014 Corn Silage Dry 7 Down Days Pricing Corn Silage 8 - 9 New County Ag 10 - 11 Census Data DMPP Sign-Up



"Gratitude bestows reverence which allows us to encounter everyday epiphanies, those transcendent moments of awe that change forever how we experience life and our world"

- John Milton -

Mark Your Calendar...

Several great educational opportunities this August and September are available to Waupaca County farmers and Ag professionals, so mark your calendar and plan to attend (look inside for more information on each). They include:

August 12-14

WI Farm Technology Days Portage County

(go 3 miles south at Stoplight by Fleet Farm in Stevens Point)

August 20-24

Waupaca County Fair Fairgrounds, Weyauwega

August 27

UW Agronomy/Soils Field Day Arlington Ag Research Station

September 3

Farm Bill Dairy Margin Protection Program Crystal Falls, New London

Wednesdays, September 10 - October 1 Corn Silage Dry Down Days Clintonville Elevator/FVTC, Clintonville Larsen Coop Feed Mill, Weyauwega

Finally, Waupaca County Farm Service Agency (FSA) Director, Dave Heideman, asks farmers to call (715-258-7162, ext. 2) if they have not completed a 2014 Crop Report. The deadline was July 15th, but FSA is still able to complete a late filed report. Fall crop reporting for hay and fall seeded small grains will begin soon (deadline is November 15th). Sign-up for the new milk program called Dairy Margin Protection Program (DMPP) will begin September 2. UW-Extension will hold a series of meeting to explain the program. Watch your mail for letters being sent on the reallocation of bases for the new Agriculture Risk Coverage (ARC) and Price Loss Coverage (PLC) Programs. All owners and operators will receive a letter. Also, call FSA with any questions.



University of Wisconsin, U.S. Department of Agriculture and Wisconsin counties cooperating. UW-Extension provides equal opportunities in employment and programming including Title IX and ADA. This document can be made available in alternative formats by calling (715) 258-6230 or TTY 800-947-3529. To ensure equal access, please make requests for reasonable accommodations as soon as possible prior to the scheduled program, service or activity.

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The New DAIRY MARGIN PROTECTION PROGRAM

The new farm bill announced earlier this year offers a "safety-net" for dairy farms called the Dairy Margin Protection Program (DMPP). This voluntary program is designed to pay participating dairy farms when their income over feed costs falls below a certain (insured) level. However, you have to sign-up to be covered, and the cost will vary depending on the amount of milk and the margin each farm wants to protect.

To learn more about this new dairy program, including the latest on enrollment plans and procedures, contact one of the following UW-Extension host sites in Northeast/ Central WI to reserve a seat. Dr. Mark Stephenson, Extension Dairy Policy Specialist from UW-Madison will be the featured speaker at all locations (some sites may require a small fee to help cover costs, so be sure to ask if there is any cost when you call to register).

Don't wait, call today and reserve your seat for this important dairy meeting!

<u>Day</u>	<u>Date</u>	<u>Time</u>	<u>Location</u>	<u>Contact</u>
Tuesday	Sept 2	9:45 am	Abbotsford City Hall/Library 203 N. First Street Abbotsford, WI 54405	Heather Schlesser Dairy Agent UWEX – Marathon County 715-261-1239
Tuesday	Sept 2	1:15 pm	Birnamwood Matsche Center/Village Hall 362 Railroad Street Birnamwood, WI 54414	Jamie Patton Agriculture Agent UWEX – Shawano County 715-526-4871
Wednesday	Sept 3	9:45 am	Cecil Cecil Village Hall 111 E. Hofman Street Cecil, WI 54111	Jamie Patton Agriculture Agent UWEX – Shawano County 715-526-4871
Wednesday	Sept 3	1:15 pm	New London Crystal Falls 1500 Handschke Drive New London, WI 54961	Greg Blonde Agriculture Agent UWEX – Waupaca County 715-258-6231
Thursday	Sept 4	9:45 am	Kiel Millhome Supper Club 16524 Lax Chapel Road Kiel, WI 53042	Scott Gunderson Dairy Agent UWEX – Manitowoc County 920-683-4175
Thursday	Sept 4	1:15 pm	Green Bay Brown Co Extension Office 1150 Bellevue Street Green Bay, WI 54302	Liz Binversie Agriculture Agent UWEX – Brown County 920-391-4612

Greg Blonde, UW-Extension Agriculture Agent...715-258-6230 (ext 2) or greg.blonde@ces.uwex.edu

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Waupaca County - Wisconsin

Ranked items among the 72 state counties and 3,079 U.S. counties, 2012

Item	Quantity	State Rank	Universe 1	U.S. Rank	Universe 1
MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD (\$1,000)					
Total value of agricultural products sold Value of crops including nursery and greenhouse Value of livestock, poultry, and their products	160,033 50,604 109,429	36 44 26	72 71 72	738 1,159 414	3,077 3,072 3,076
VALUE OF SALES BY COMMODITY GROUP (\$1,000)					
Grains, oilseeds, dry beans, and dry peas Tobacco Cotton and cottonseed	42,693	34	71 10	917 - -	2,926 436 635
Vegetables, melons, potatoes, and sweet potatoes Fruits, tree nuts, and berries Nursery, greenhouse, floriculture, and sod Cut Christmas trees and short rotation woody crops Other crops and hay Poultry and eggs Cattle and calves Milk from cows Hogs and pigs Sheep, goats, wool, mohair, and milk Horses, ponies, mules, burros, and donkeys Aquaculture Other animals and other animal products	3,377 255 273 150 3,857 (D) 18,303 89,989 150 436 297 (D)	27 43 58 17 26 48 32 19 39 18 12 28 52	70 70 71 67 71 72 72 68 70 68 69 53	467 9655 1,644 201 766 (D) 860 883 1,153 381 926 (D) 1,066	2,802 2,724 2,678 1,530 3,049 3,013 3,056 2,038 2,827 2,988 3,011 1,366 2,924
TOP CROP ITEMS (acres)					
Corn for grain Forage-land used for all hay and haylage, grass silage, and greenchop Soybeans for beans Corn for silage Wheat for grain, all	42,949 41,507 20,221 18,440 2,034	31 27 40 20 32	69 72 68 69 68	674 339 919 69 1,344	2,638 3,057 2,162 2,237 2,537
TOP LIVESTOCK INVENTORY ITEMS (number)					
Cattle and calves Layers Broilers and other meat-type chickens Horses and ponies Sheep and lambs	53,073 4,192 3,019 2,060 1,583	26 32 16 15 19	72 72 71 72 70	460 876 707 442 582	3,063 3,040 2,723 3,072 2,897

Other County Highlights, 2012

Economic Characteristics	Quantity
Farms by value of sales:	
Less than \$1,000	265
\$1,000 to \$2,499	115
\$2,500 to \$4,999	91
\$5,000 to \$9,999	92
\$10,000 to \$19,999	110
\$20,000 to \$24,999	34
\$25,000 to \$39,999	69
\$40,000 to \$49,999	29
\$50,000 to \$99,999	80
\$100,000 to \$249,999	123
\$250,000 to \$499,999	63
\$500,000 or more	74
Total farm production expenses (\$1,000)	132,746
Average per farm (\$)	115,935
Net cash farm income of operation (\$1,000)	39,202
Average per farm (\$)	34,238

Operator Characteristics	Quantity
Principal operators by primary occupation:	
Farming	570
Other	575
Principal operators by sex:	
Male	1,032
Female	113
Average age of principal operator (years)	57.0
All operators by race 2:	
American Indian or Alaska Native	_
Asian	_
Black or African American	_
Native Hawaiian or Other Pacific Islander	_
White	1,720
More than one race	1
All operators of Spanish, Hispanic, or Latino Origin ²	15

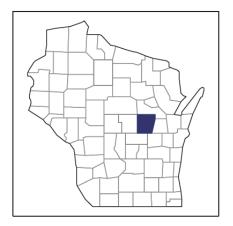
See "Census of Agriculture, Volume 1, Geographic Area Series" for complete footnotes, explanations, definitions, and methodological - Represents zero. (D) Withheld to avoid disclosing data for individual operations.

Universe is number of counties in state or U.S. with item. 2 Data were collected for a maximum of three operators per far

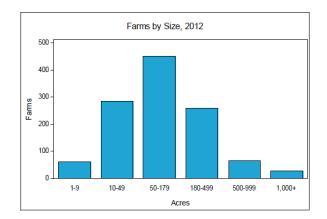
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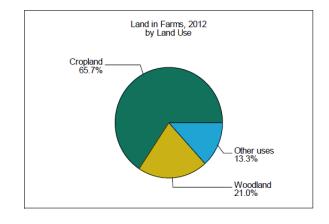


Waupaca County Wisconsin



	2012	2007	% change
Number of Farms	1,145	1,330	- 14
Land in Farms	215,330 acres	234,392 acres	- 8
Average Size of Farm	188 acres	176 acres	+ 7
Market Value of Products Sold	\$160,033,000	\$136,954,000	+ 17
Crop Sales \$50,604,000 (32 percent) Livestock Sales \$109,429,000 (68 percent)			
Average Per Farm	\$139,767	\$102,973	+ 36
Government Payments	\$4,066,000	\$2,580,000	+ 58
Average Per Farm Receiving Payments	\$6,633	\$3,270	+ 103





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AGRONOMY/SOILS FIELD DAY

Wednesday, August 27, 2014 Arlington Agricultural Research Station



AGENDA

8:00 Registration & Coffee

8:30 Soils, Forages, and Greenhouse Gas Tours depart

10:30 Grains, Forages, and Greenhouse Gas Tours depart

12:00 Lunch provided by Badger Crops Club (\$5 donation)
Demonstration of UAV with aerial photography

1:00 Grains and Soils Tours depart

Note: All tours are only offered twice. Tours depart promptly as scheduled.

TOURS

Grains

- Herbicide resistance in Wisconsin corn and soybean:
 Take action (Vince Davis)
- Prescription seeding rates and climate impact on
 Midwestern soybean (Shawn Conley & Ethan Smidt)
- Maximum yield systems research for corn (*Joe Lauer*)
- Going "old school" to manage corn rootworms

(Bryan Jensen)

Soils

- Strategies for crop residue management (Francisco Arriaga)
- Nitrogen sensor research for corn and wheat
 (Carrie Laboski & Haily Henderson)
- Using rolled cover crops in organic and conventional soybean production (*Erin Silva*)

Greenhouse Gases & Wisconsin Agriculture

- Introduction to greenhouse gases (Matt Ruark)
- Greenhouse gas emissions from three crop rotations in Wisconsin (Maciek Kazula & Joe Lauer)
- Influence of weed management on nitrous oxide emissions (Becky Bailey & Vince Davis)
- Greenhouse gases from dairy-based rotations (Sarah Collier & Matt Ruark)
- Greenhouse gases and biofuel production
 (Randy Jackson)

Forages

- Perennial forages are essential for long-term carbon
- storage in Wisconsin's prairie soils (*Gregg Sanford*)
 Cautions when harvesting wet forage
 - (Dan Undersander)
- What level of weed control is needed to ensure alfalfa establishment? (Mark Renz)
- Common alfalfa diseases for 2014 and management options (*Damon Smith*)

Visit exhibits between tours and during lunch: Apps for Ag; Nutrient & Pest Management Program; Integrated Pest Management Program; SnapPlus; and more!

The Arlington Research Station is located on Hwy. 51, about 5 miles south of Arlington and 15 miles north of Madison. Watch for Field Day signs. **GPS coordinates: 43.300467, -89.345534**

For more information contact the Dept. of Agronomy 608/262-1390 or the Dept. of Soil Science 608/262-0485

In the event of rain, presentations will be held inside.

Sponsored by the UW-Madison College of Agricultural and Life Sciences and UW-Extension.

► Certified Crop Advisors: 6.0 CEU credits requested ◀

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July 2014 Field Crops 28.47-105

Predicting Maturity Date of Late-Planted and Uneven Corn

Joe Lauer, Corn Agronomist

During cool growing seasons, especially when planting is delayed due to wet spring conditions, growers are concerned about whether their corn is vulnerable and will reach maturity before normal frost dates. Often the range in planting dates have implications at harvest time, especially for silage because grain and dairy producers often negotiate the sale of corn in fields that are borderline for development (Figure 1).

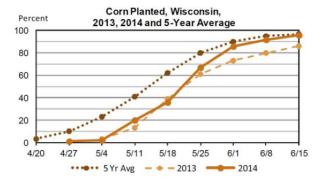


Figure 1. Wisconsin corn planting progress (Data source: USDA-NASS).

Most hybrids require about 55 to 60 days to develop from the silk stage to physiological maturity. Hybrid maturity differences in development time occur primarily from emergence to silking, not from silking to maturity (Figure 3). Growers are concerned when corn does not reach the silk stage (R1-Figure 2) until early August or later. Killing frosts can easily occur by late September, so corn



Figure 2. Corn silking (R1). Photo by W. Hoffman.

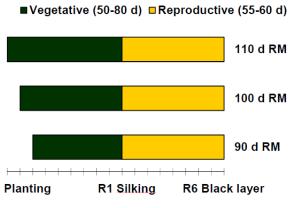


Figure 3. Typical time span of vegetative and reproductive stages during the life cycle of corn.

silking in early August would not be safe from major yield reductions due to frost until October.

Figures 4 and 5 describe typical development of comsilage yield and quality and of a corn kernel. At the dent stage (R5), corn has accumulated 75-85% of silage yield and

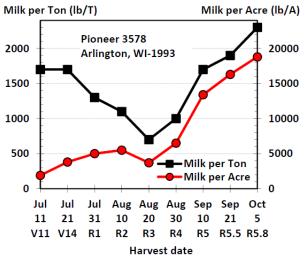


Figure 4. Corn silage yield and quality changes during development.

Greg Blonde, UW-Extension Agriculture Agent...715-258-6230 (ext 2) or greg.blonde@ces.uwex.edu

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2013 Corn Silage Pricing Decision Aid

by Ryan Sterry, Lee Milligan and Joe Lauer (2007, Revised 2013)



Please enter your input values into the shaded cells. Red letters refer to explanations or guidelines at bottom. Use actual costs when possible, or refer to guidelines.

Yield Information Grain Yield Bushels/Acre		150	
Silage % DM		35%	
	timated 19.97	Actual	*To use estimated yie 19.97
Price Perspective		Seller	Buyer
Local Market Price for No.2 Corn at 15.5% moisture as Buyer or Seller		\$5.00	\$5.00 /bushel
Local Market Price per ton for poor quality/low protein forage to Buyer (a)			\$75 /Ton
Average grain loss for harvest before black layer (Bushels/Acre) (b)			14 bu/A
Gross Value of Corn Crop/Acre		\$750	\$918
Gross Value of Corn Crop/Wet Ton Gross Value of Corn Crop/Dry Ton			\$46 \$131
Grain Harvest Costs (c) Combining Cost/Acre		\$50.00	
Trucking Cost/Acre = Grain yield (bu/A) x \$/bushel 150 bu/A x \$0.15 \$/bu		\$22.50	
Drying Cost/Acre = Grain yield (bu/A) x \$/bushel 150 bu/A x \$0.20 \$/bu		\$30.00	
Storage Cost/Acre = Grain yield (bu/A x \$/bu/month x Time (months) 150 bu/A x \$0.02 \$/bu/mo 9 months		\$27.00	
Harvest and Storage Loss (d) = Estimated % loss 150 bu/A x 2.50%		\$18.75	
Total Harvest Costs/Acre		\$148.25	
Value/Acre of Corn Silage to Seller Adjusted for Grain Harvest Costs (Gross Value of Crop - Grain Harvest Expenses)		\$601.75	
Value/Wet Ton of Corn Silage to Seller Adjusted for Grain Harvest Costs		\$30.14	
Silage Harvest Costs (e)			
Chopping \$/Acre			\$55.00
Hauling \$/Acre			\$15.00
Harvest and Storage Loss (f) Estimated Concrete tower 🔻 13% Actual (if known) =	13%		\$119.39
Silage Harvest Costs/Acre			\$189.39
			\$189.39
	e per lb P		Estimated st
Fertilizer Value of Harvested Stover Phosphorus Value = Pounds P205/Ton Dry Matter (from pub A2809) Tons Stover DM/acre (See estimate to right) Price 4.6 3.55 3.55	e per lb P: \$0.50	\$8.16	
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Pricing Corn Silage

Joe Lauer and Ryan Sterry, Corn Agronomist and St. Croix County Agent

Pricing corn silage is a difficult decision because it often comes at a time when emotions between sellers and buyers are high. The seller has the opportunity to sell a corn field for either silage or grain and incorporate the fertilizer value of the stover back into the field. The buyer has the opportunity to buy a corn field for silage or buy grain from the market and purchase low quality straw (wheat or corn stover aftermath) to formulate rations.

Arriving at a fair price and being able to take into account the markets (grain, straw, milk and silage), fertilizer, harvesting and quality costs is a difficult decision. Somewhere in the middle of the seller and buyer perspectives negotiations should be able to arrive at a fair price. The Sterry et al. spreadsheet (see http://corn.agronomy.wisc.edu/Season/DSS.aspx) accounts for both the seller and buyer perspectives to arrive at a fair price for corn silage. This article performs a sensitivity analysis of this spreadsheet.

The assumptions and initial values typical for the market conditions heading into the 2013 harvest are shown on page 2. To produce the sensitivity analysis in Table 1, one input value at a time was changed on the spreadsheet for grain price, milk price, grain yield, starch content, straw price and NDFD. This can lead to somewhat ambiguous conclusions. For example, often the seller receives a lower price than what the buyer must pay for grain, however, in this example the seller and buyer grain prices are held the same. Also, when one quality measure moves in a certain direction (i.e. starch content) other measures (i.e. grain yield or NDFD) are affected as well. In 2013 many corn fields were late late-planted and affected by drought which affects yield, starch content and NDFD.

Grain prices between \$4 and \$7 per bushel affect corn silage price from \$28 to \$51 per Ton wet. Milk price affects the buyer decision much more than the seller. Low grain yields reduce the price of standing corn silage as does lower starch content. Straw price does not affect the seller perspective, but does affect the buyer perspective of a standing corn silage field

Table 1. Sensitivity analysis of seller and buyer perspectives using the Sterry et al. spreadsheet for calculating the value of standing corn silage (\$/T) with quality adjustments.

	Wet Basi	s (65%)	Dry Matt	<u>er Basis</u>
	Seller	Buyer	Seller	Buyer
Grain price (\$/bu)				
\$7.00	50	51	143	145
\$6.00	43	45	122	128
* \$5.00	35	39	101	111
\$4.00	28	33	80	94
Milk price (\$/cwt)				
\$24	36	39	103	113
* \$18	35	39	101	111
\$12	35	38	99	108
Grain yield (bu/A)				
175	35	39	99	110
* 150	35	39	101	111
125	35	38	99	108
100	33	36	93	103
75	29	32	83	93
50	23	27	65	76
25	12	17	35	48
Straw price (\$/T)				
\$100	35	42	101	120
* \$75	35	39	101	111
\$50	35	35	101	101
Starch content (%)				
34%	40	43	113	123
* 29%	35	39	101	111
24%	31	34	88	98
NDFD (%)				
68%	36	39	102	112
* 58%	35	39	101	111
48%	35	38	100	109
* TTI 1.0010		1.1	.1	1.1

^{*} The normal 2013 assumptions used in the spreadsheet example shown on page 2.

because he has the option to buy wheat straw. NDFD had little effect on corn silage price in this spreadsheet. Users of this spreadsheet need to input their own data for the values used in the calculations.

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60-75% of grain yield and needs about 27-32 days to avoid significant yield reductions due to frost (Table 1). In order to avoid yield reductions caused by frost, corn intended for silage should be silking by late August, while corn intended for dry grain should reach the dent stage by September 1.

Figure 6 describes the typical pattern of forage and grain development during the growing season. A "double-peak" for forage quality (Milk per Ton) is observed at flowering (R1) and R5.5 (50% kernel milkline). After R5, forage moisture decreases at a more rapid rate. Forage yield (Milk per Acre) is greatest around R5.5. Grain yield increases until R6 (Black layer = Physiological maturity). Grain moisture drops at a more rapid rate than forage moisture after R5 (Dent stage). Optimum moisture when cutting corn can be achieved by raising or lowering the cutter bar. The moisture swing is about 3-4%. The wettest part of the plant is the lower stalk, while the driest is the grain.

To predict whether corn will mature before frost note the hybrid maturity, planting date and tasseling

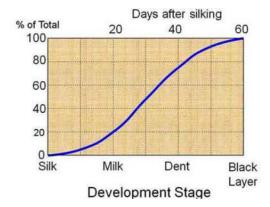


Figure 5. Typical corn kernel development in Wisconsin.

(silking) date of the field. For silage planted early, add 42-47 days on to this date to predict 50% kernel milk, while for grain, add 55-60 days to predict maturity. These dates are guidelines which will require further in-season decisions as the season unfolds.

Table 1. The relationship between kernel growth stage and development of corn for normal planting dates.

	Calendar days to	GDUs to	Percent of max yield		<u>Moisture</u>	content (%)
Stage	maturity	maturity	Grain	Silage	Grain	Silage
R1: Silking	55-60	1100-1200	0	45-50		80-85
R2: Blister	45-50	875-975	0-10	55-60	85-95	80-85
R3: Milk	35-40	750-850	10-30	60-65	70-85	80-85
R4: Dough	30-35	650-750	30-60	65-75	60-70	75-80
R5: Dent	27-32	425-525	60-75	75-85	50-55	70-75
R5.5: 50% Kernel milk	13-18	200-300	90-95	100	35-40	65-70
R6: Black layer	0	0	100	95-100	30-35	55-65

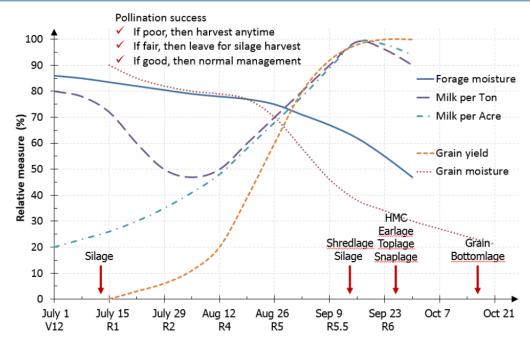


Figure 6. Normal pattern of corn forage and grain development in Wisconsin.

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EXHIBITS

- UW-Extension's Applied **Technology Center**
- Family Living Tent
- Progress Pavilion
- Youth Tent
- Arts & Crafts
- Field Demonstrations
- Commercial Exhibitors

HOST FARM

Blue Top Farms and Feltz Family Farms will host WFTD 2014. They are located east of Plover, south of Highway HH.

UW-Extension's Applied Technology

Center – Featuring information about IoH updates, irrigation water management, Ideal Calving Pen, cover crops, local craft brewing, manure storage and transport.

Family Living Tent - A focus on "Family: Doorway to the Center of It All." Exhibits include: family life, family health and family leisure. This tent also includes a stage for entertainment and educational presentations.

Progress Pavilion – Progress Pavilion exhibits highlight innovations in Wisconsin agribusiness. Sample a variety of educational exhibits from UW-Extension that include getting your drinking water tested, visiting with UW-Extension Master Gardeners, and UW experts will answer your soil, plant and insect questions.

Youth Tent - Whether you live on a farm or are a city dweller, you will find adventure, knowledge, hands-on experiences, and fun through agriculture in the Family Farm Adventure area.

Arts and Crafts -

In addition to vendors who have previously sold their products at WFTD, there will be many local vendors coming to the show for the first time. Shoppers will be pleased with the unique collection of items they will find in the Family Mercantile.

Field Demonstrations -

Demonstrations will take place mornings and afternoons, weather permitting. Hay cutting and harvesting, vegetable harvesting, tillage demos, and drone demos.

Commercial Exhibitors – More than 500 commercial exhibitors in Tent City who are eager to talk to visitors about their machinery. equipment, facilities,

products, and services needs.

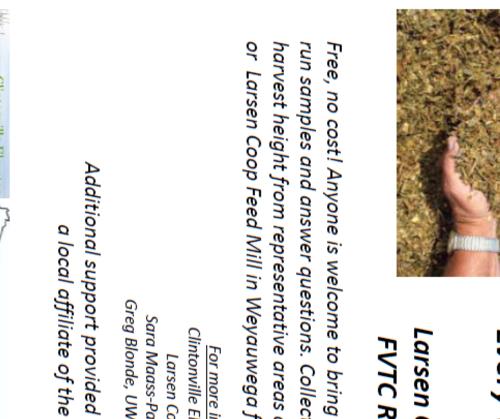






www.wifarmtechnologydays.com

Visit the website for more information on exhibitors, demonstrations and directions to the show.



Silage

Every Wednesday,

Larsen 10 AM PM

Feed answer questions. representative Mill in Ś welcome Weyauwega areas Collect bring samples. ξģ of the field analysis stalks and Bring for each sample. same /Feed Mill staff will be directly to day results FVTC in Cut at norma Clintonville

Sara Maass-Pate, For more information, contact: Clintonville Elevator (800-216-2894) Blonde, County Forage



Midwest

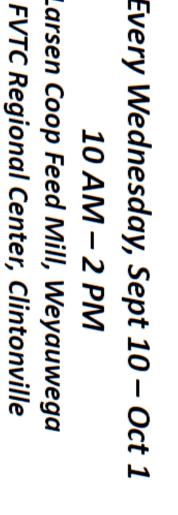
Forage Association

Larsen Cooperative Company









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